| Inde | ex of | Claim | S |
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Applicant(s)/Patent under Reexamination Application/Control No. 10/633,611 WEBB ET AL. Examiner Art Unit Marina Miller 1631

| √  | Rejected |
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| II | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| 2 | Non-Elected  |  |
|---|--------------|--|
| _ | Interference |  |

| A | Appeal   |
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| O | Objected |

| Claim  |          |          |          | L        |          |              |          | ,        |              |          |           |          |          |          |  |  | _        | ــــــ       | 1        |              |          |            | J        |               |         |                    |           |
|--|----------|----------|----------|----------|----------|--------------|----------|----------|--------------|----------|-----------|----------|----------|----------|--|--|----------|--------------|----------|--------------|----------|------------|----------|---------------|---------|--------------------|-----------|
| The color of the | Cli      | aim      |          |          |          |              | Dat      | e        |              |          |           | Cli      | aim      |          |  |  | Dat      | e            |          |              |          | С          | laim     |               |         |                    | Da        |
| 102  | Final    | Original |          |          |          |              |          |          |              |          |           | Finat    | Original |          |  |  |          |              |          |              |          | Final      | Original |               |         |                    |           |
| 3  |          |          | 1        |          |          |              |          |          |              |          |           |          |          |          |  |  |          |              |          |              |          |            |          |               | 土       | $\exists$          |           |
| 4  |          | 2        | L        |          | _        | L            | _        | ┞        |              | L.       | _         | ļ        |          |          | +                                      | ┺  | <u> </u> | _            |          | <u> </u>     | Щ        |            |          |               | $\perp$ | $\Box$             | $\perp$   |
| 55   V   | <u> </u> |          | ⊢        |          | _        | <u> </u>     | <u> </u> | ـ        | ┡            | _        | 4         |          | 53       |          | _                                      | ╀  | ┞        | <u> </u>     | L        | <u> </u>     | Ш        |            |          |               | 4       | 4                  | _         |
| 66   V   |          |          | 1        |          | ├-       | <del> </del> | ├        | ⊢        | ├            |          | $\dashv$  |          |          | -        | +-                                     | ┿  | -        | <del> </del> | ├-       | ⊢            | Н        | <u> </u>   | 104      | $\vdash$      | +       | 4                  | +         |
| 10   | <u> </u> |          | 1        |          | $\vdash$ | ├            | ├        | $\vdash$ | -            |          | $\dashv$  |          | 56       | -        | +-                                     | +  | ╀        | ⊢            | ⊢        | <del> </del> | Н        | $\vdash$   |          | $\vdash$      | +       | +                  | +         |
| S  | <u> </u> |          | ·        |          | $\vdash$ | -            | -        | $\vdash$ | <del> </del> | -        | ᅱ         | -        | 57       | +        | ╁                                      | ╁  | ╁        |              | $\vdash$ | <u> </u>     | H        | -          | 107      | $\vdash$      | +       | +                  | +         |
| 9  |          |          | Ì        | -        |          | $\vdash$     | 1-       |          | 一            | Н        | $\exists$ |          |          | $\vdash$ | +                                      | ╁  | ┢        | ┢╌           | -        |              | $\vdash$ | -          |          | $\vdash$      | +       | +                  | 十         |
| 10   |          |          |          |          |          |              | İ        |          |              | П        | $\exists$ |          |          |          | $\top$                                 | †-   | $\vdash$ | <u> </u>     |          | Т            | Н        |            | 109      |               | +       | $\dashv$           | 十         |
| 11   |          |          | 1        |          |          |              |          |          |              |          |           |          | 60       |          | 丅                                      | $\top$   |          |              |          |              | П        |            |          |               | $\top$  | 寸                  | $\top$    |
| 13   N   |          |          |          |          |          |              |          |          |              |          |           |          | 61       |          |  |  |          |              |          |              |          |            | 111      |               |         | T                  | T         |
| 14   | L        |          |          |          | L        |              | <u> </u> |          |              |          |           |          |          |          |  |  |          |              |          |              |          |            |          |               |         | $\Box$             |           |
| 15   |          |          | 1        | _        | <u> </u> | _            | <u> </u> | 上        | _            |          | _         |          |          |          | 1                                      | _  | <u> </u> |              |          |              |          |            |          |               |         | $\perp$            |           |
| 16   |          |          | <u> </u> | <u> </u> | <u> </u> | <u> </u>     | ├_       | ┡        | <u> </u>     | _        | _         |          | 64       |          | ╀                                      | ↓_   | ╙        |              |          |              | $\Box$   | <u> </u>   | 114      | $\perp$       | 4       | 4                  | _         |
| 17   | <u></u>  |          | H        | ┝        | <u> </u> | ├            | ├        | ⊢        |              | $\vdash$ | -         | ļ        |          |          | - -                                    | +-   | ⊢        | <u> </u>     |          |              |          |            |          |               | 4       | 4                  | -         |
| 18   | <u> </u> |          | -        | <u> </u> |          | _            | ├        | ├        | _            | -        | $\dashv$  |          | 67       | $\vdash$ | ┿                                      | ╀  | <u> </u> | <u> </u>     |          |              |          | ļ          |          | $\dashv$      | +       | +                  | +         |
| 19   | <b></b>  |          | -        | -        | -        | -            | ╁        | ├        | -            | $\vdash$ | ᅱ         | -        |          | -        | ┿                                      | ╁  | ╁        | -            | -        |              | -        | }          |          |               | +       | $\dashv$           | -         |
| 120  |          |          | -        |          | $\vdash$ | $\vdash$     | $\vdash$ | ╁        | -            | $\vdash$ | $\dashv$  |          |          |          | ╁                                      | ╁  | ┢        | $\vdash$     | -        | $\vdash$     |          |            |          | -             | +       | $\dashv$           | ┽         |
| 121  | <b> </b> |          | -        |          | $\vdash$ | _            | $\vdash$ | $\vdash$ | H            | Н        | $\neg$    |          |          | -        | +                                      | +-   | ┢        |              |          | -            |          | -          | 120      | $\vdash$      | ┿       | +                  | +         |
| Text   |          |          |          |          |          |              | T        | $\vdash$ | Т            | Н        |           |          |          | $\vdash$ | $\top$                                 | <del>                                     </del> | $\vdash$ | -            |          |              |          | -          |          | -             | 十       | 十                  | +         |
| 23   123   124   124   125   126   126   126   127   128   126   127   128   129   129   129   129   129   129   129   129   130   130   131   130   131   130   131   132   130   130   131   132   130   130   131   132   130   133   133   133   134   134   134   134   135   136   136   137   137   137   137   137   137   138   139   139   139   139   139   139   139   140   141   142   142   142   142   144   144   144   144   144   145   145   146   147   148   148   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   149   |          |          |          |          |          |              |          | İ        | Г            | П        | $\neg$    |          | 72       |          | $\top$                                 | †  | Г        |              |          |              | _        |            | 122      |               | 十       | 十                  | 十         |
| 75   |          |          |          |          |          |              |          |          |              |          |           |          | 73       |          |  |  |          |              |          |              |          |            | 123      |               | 十       | ヿ                  | $\top$    |
| 26 126 126 127   27 128 127 128 129   29 128 129 129 129 129 129 129 129 130 130 130 130 131 131 131 131 132 133 134 135 136 136 136 137 138 138 139 139 139 139 139 139 139 139 140 141 141 142 143 144 144 144 144 144 144 144 144 144 144 144 144 145 146 147 148 149<  |          | 24       |          |          |          |              |          |          |              |          |           |          | 74       |          | $\perp$                                |  |          |              |          |              |          |            |          |               | $\perp$ | $\Box$             | $\exists$ |
| 127  |          |          | <u> </u> |          | _        | <u> </u>     | _        |          |              | Ш        | _         | <u> </u> |          |          |  | ↓_   | L        |              |          |              |          |            | 125      |               | $\perp$ | $\bot$             |           |
| 28   |          |          |          | _        |          | _            |          | _        |              |          | 4         | <u> </u> |          |          | _                                      | ┞_   | _        |              |          |              | _        |            | 126      |               |         | 4                  |           |
| 129  |          |          | _        |          |          |              | ├        | _        |              |          | 4         | ļ        |          |          | +                                      |  | _        |              |          | _            | _        | <u> </u>   | 127      |               | 4       | 4                  | -         |
| 30   |          |          |          |          |          |              | -        |          | -            | Н        | $\dashv$  | -        | 70       |          | +                                      | ┼  | ⊢        | -            | $\vdash$ | -            | $\dashv$ |            | 128      |               | +       | +                  | -         |
| 31   | -        |          |          |          |          |              | <u> </u> |          | ┝            | $\vdash$ | $\dashv$  |          |          | -        | +                                      | $\vdash$   | ┝        | _            | Н        | _            | $\dashv$ | -          | 129      | $\dashv$      | +       | +                  | +         |
| 32   | -        |          |          | -        | -        | _            | $\vdash$ |          | ┢            |          | $\dashv$  |          |          | +        | +                                      | ╁╌   | $\vdash$ | _            | Н        | $\dashv$     | $\dashv$ | -          | 131      |               | +       | +                  | +         |
| 33   |          |          |          |          |          | -            | -        |          | ┢            |          | $\dashv$  |          |          |          |  | $\vdash$   | $\vdash$ |              | Н        |              | $\dashv$ |            | 132      | $\rightarrow$ | -       | +                  | +         |
| 34 35 36 37 38 37 38 39 <td< td=""><td></td><td>33</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>┪</td><td></td><td></td><td></td><td>+</td><td><math>\vdash</math></td><td></td><td></td><td>П</td><td></td><td></td><td></td><td></td><td><math>\overline{}</math></td><td>十</td><td>十</td><td>十</td></td<>  |          | 33       |          |          |          |              |          |          |              |          | ┪         |          |          |          | +                                      | $\vdash$   |          |              | П        |              |          |            |          | $\overline{}$ | 十       | 十                  | 十         |
| 36   | ·        |          |          |          |          |              |          |          |              |          |           |          | 84       |          |  | T  |          |              | П        |              |          |            |          |               | 十       | 寸                  | 十         |
| 37   |          | 35       |          |          |          |              |          |          |              |          |           |          |          |          |  | <u></u>  |          |              |          |              |          |            |          |               | T       | $\top$             |           |
| 38   | <u></u>  |          |          |          |          |              |          |          |              |          |           |          |          |          | 1_                                     |  |          |              |          |              |          |            | 136      |               | $\perp$ | $\Box$             | $\Box$    |
| 39   |          |          |          |          |          | _            | L_       | _        | ldash        |          | _         |          |          |          | _                                      | 丄  | _        | L            | Ш        |              | _        |            |          |               | $\perp$ | 4                  | 4         |
| 40   |          | 38       |          | -        |          | _            |          | <u> </u> | <u> </u>     | $\sqcup$ |           |          |          | $\perp$  | _                                      | -  | _        | _            | Ш        |              | _        |            | 138      |               | 4       | 4                  | 4         |
| 41   V   |          |          |          | _        |          | _            | -        | -        | ├            |          | -         |          |          |          | +                                      | ╄  |          |              | $\vdash$ | _            |          |            |          | _             | +       | 4                  |           |
| 42   \forall   |          |          | 7        | -        | -        | $\vdash$     |          | $\vdash$ | $\vdash$     | $\vdash$ | ┥         | -        |          | -        | ╁╴                                     | ╀  | ⊢        |              | Н        | $\vdash$     | $\dashv$ | <b>-</b> - |          |               | +       | +                  | +         |
| 43   V   |          |          |          |          |          | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ | $\dashv$  | <u> </u> |          | +        | +                                      | +-   |          | _            | $\vdash$ | -            | $\dashv$ |            |          | +             | +       | +                  | +         |
| 44   V   |          |          |          | $\vdash$ | _        | _            | $\vdash$ | $\vdash$ | Н            | $\vdash$ | $\dashv$  |          |          | +        | +                                      | 1-   |          |              | $\vdash$ |              | $\dashv$ |            |          |               | +       | +                  | $\dashv$  |
| 45   \land   |          |          | 7        |          |          | Т            | <u></u>  | Г        | $\vdash$     | $\vdash$ | $\dashv$  |          |          | $\top$   | $\top$                                 | 1  | <b> </b> | _            | $\Box$   | $\exists$    | $\dashv$ |            |          | $\dashv$      | +       | +                  | +         |
| 46   \forall   96   146   147   148   148   49   \forall   97   149    |          | 45       | 1        |          |          |              |          |          |              |          |           |          | 95       |          |  |  | П        |              |          |              |          |            | 145      | $\neg$        | 十       | 十                  | $\top$    |
| 47   V   |          | 46       |          |          |          |              |          |          |              |          |           |          | 96       |          | $oxed{\Box}$                           |  |          |              |          |              |          |            | 146      |               | _       | 丁                  | _         |
| 49 🗸   |          |          |          |          |          |              |          |          |              | П        |           |          |          | $\perp$  |  |  |          |              |          |              |          |            | 147      |               | I       | $\Box$             | $\perp$   |
|  | <u> </u> |          |          |          |          | $oxed{oxed}$ | <u> </u> | <u> </u> |              | $\sqcup$ | $\Box$    |          |          |          | $\perp$                                | L  |          |              | Ш        |              | _        |            |          | $\bot$        | $\bot$  | $oldsymbol{\perp}$ | $\bot$    |
|  |          |          | 1        | _        |          | _            | <u> </u> | <u> </u> |              | $\sqcup$ | _         |          | 99       | $\perp$  | _                                      | $\vdash$   |          |              | Ш        | _            | _        | <u> </u>   | 149      | _             | _       | $\downarrow$       | $\perp$   |
|  | L        | 50       | Ш        | لـــا    |          |              |          | Ш        |              |          |           |          | 100      |          | ــــــــــــــــــــــــــــــــــــــ | 1  | ليسا     |              | Ш        |              |          | L          | 150      |               |         |                    | $\perp$   |

| Cla          | aim   | Date      |              |               |          |   |              |  |              |                 |  |  |  |
|--------------|---|-----------|--------------|---------------|----------|---|--------------|--|--------------|-----------------|--|--|--|
|              |   | <u> </u>  | Γ            | $\overline{}$ | Г        | Π   | Г            | П  | Г            |                 |  |  |  |
| <del>-</del> | Original  | l         |              | 1             |          |   |              |  |              |                 |  |  |  |
| Final        | <u>:</u>  | l         |              |               |          |   |              | ĺ  |              |                 |  |  |  |
| ш.           | ŏ   |           | 1            | l             |          | ł   | l            |  | İ            | l               |  |  |  |
|              |   |           |              | _             | L        | 乚   |              | L  |              | Ш               |  |  |  |
|              | 101   |           | L            |               |          |   |              | _  |              |                 |  |  |  |
|              | 102<br>103  |           |              |               | _        | Γ   |              |  | Γ            |                 |  |  |  |
|              | 103   |           |              | Г             | Π        |   |              |  |              |                 |  |  |  |
|              | 104   | _         |              | $\vdash$      | ┪        | T   | _            | $\vdash$   | $\vdash$     |                 |  |  |  |
|              | 105   | ┢         | -            | 1             | $\vdash$ | $\vdash$  | $\vdash$     | -  | $\vdash$     | Н               |  |  |  |
|              | 106   | ⊢         | <del> </del> | -             | -        | $\vdash$  | -            | ⊢  | -            | $\vdash$        |  |  |  |
|              | 100   | ┝         | -            | ┢             | -        | ⊢   | -            |  | -            | $\vdash$        |  |  |  |
|              | 107<br>108  | ├-        | -            | <u> </u>      | _        |   | _            |  | <u> </u>     | Н               |  |  |  |
|              | 108   | _         |              |               | _        | <u> </u>  |              | L  | <u> </u>     |                 |  |  |  |
|              | 109   |           |              |               | _        | <u> </u>  |              |  | L            | Ш               |  |  |  |
|              | 110   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 110<br>111  | L         |              |               | L        | L   | L            | L  |              |                 |  |  |  |
|              | 112   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 113   |           |              |               |          | T   | Г            | Г  |              | Н               |  |  |  |
|              | 114   | $\vdash$  | $\vdash$     | -             | $\vdash$ | _   | $\vdash$     | <del>                                     </del> | $\vdash$     | Н               |  |  |  |
| _            | 113<br>114<br>115   | $\vdash$  | $\vdash$     | <del> </del>  | $\vdash$ | -   | -            |  | $\vdash$     | $\vdash \vdash$ |  |  |  |
|              | 110   | <u> </u>  | -            | -             | <u> </u> | -   | <del> </del> |  | <u> </u>     | $\vdash \vdash$ |  |  |  |
|              | 116<br>117  | l-i       | $\vdash$     | <u> </u>      | <u> </u> | <u> </u>  | <u> </u>     | <u> </u>   | <u> </u>     | $\vdash \vdash$ |  |  |  |
|              | 117   | <u> </u>  | _            | L.            | L_       | <u> </u>  | <u> </u>     | _  | <u> </u>     | Ш               |  |  |  |
|              | 118<br>119  | L         |              | L             | L        |   |              |  | L            |                 |  |  |  |
|              | 119   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 120   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 121   | _         |              |               |          |   | _            |  |              |                 |  |  |  |
|              | 121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131 | _         |              | $\vdash$      | $\vdash$ |   |              |  | -            | $\vdash$        |  |  |  |
|              | 123   | -         | -            | $\vdash$      | -        | -   | _            |  | -            | $\vdash$        |  |  |  |
|              | 123   |           | _            | -             | _        | H   | _            | _  | H            | $\dashv$        |  |  |  |
|              | 124   |           |              | Н             |          | _   |              |  |              |                 |  |  |  |
|              | 125   |           |              |               |          |   | _            | _  | _            |                 |  |  |  |
|              | 126   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 127   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 128   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 129   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 130   |           |              |               | _        | _   | $\vdash$     |  |              | H               |  |  |  |
|              | 131   | _         |              | Н             | _        | $\vdash$  |              |  | $\vdash$     | $\vdash$        |  |  |  |
| -            | 133   | _         | _            | -             | _        | -   | $\vdash$     | H  |              | Н               |  |  |  |
|              | 132   | $\vdash$  |              |               |          | $\vdash$  | $\vdash$     | $\vdash$   |              | Н               |  |  |  |
|              | 133   |           |              |               | _        | $\vdash$  | _            |  |              | -               |  |  |  |
|              | 134   |           |              |               |          | L   |              | L.,  | Ш            | Ш               |  |  |  |
|              | 132<br>133<br>134<br>135  |           |              |               |          | $ldsymbol{le}}}}}}$ |              |  | $oxed{oxed}$ |                 |  |  |  |
|              | 136   |           |              |               |          | L   |              |  |              |                 |  |  |  |
|              | 137   |           |              |               |          |   |              |  |              | П               |  |  |  |
|              | 138   |           |              |               |          |   |              |  |              | $\Box$          |  |  |  |
|              | 139   |           | П            |               |          | П   |              | _  |              | $\dashv$        |  |  |  |
|              | 140   |           | $\vdash$     | -             |          | $\vdash$  |              |  |              | $\dashv$        |  |  |  |
|              | 141   | $\dashv$  | $\dashv$     | -             | H        | H   | Н            | -  |              |                 |  |  |  |
|              | 141   |           |              | $\dashv$      | -        | H   | $\vdash$     |  | -            | -               |  |  |  |
| -            | 142   |           | $\vdash$     | Ш             | _        | Щ   | -            |  |              |                 |  |  |  |
|              | 143   | $\sqcup$  |              | Щ             |          | Щ   |              |  |              | Щ               |  |  |  |
|              | 144   |           |              |               |          | Ш   |              |  |              |                 |  |  |  |
|              | 145   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 146   |           |              |               |          |   |              |  |              |                 |  |  |  |
|              | 147   |           |              |               |          |   |              | $\neg$   |              |                 |  |  |  |
|              | 148   | $\exists$ | -            | Н             | _        | Н   |              | $\vdash$   | Н            | -               |  |  |  |
|              | 149   |           | $\dashv$     | $\vdash$      | -        | -   | -            | $\dashv$   | $\vdash$     | $\dashv$        |  |  |  |
|              |   | -         |              |               |          | -   | -            | -  | -            | $\dashv$        |  |  |  |
|              | 150   |           | Щ            |               |          | Ш   | L            | لـــا  | Ш            |                 |  |  |  |
|              |   |           |              |               |          |   |              |  |              |                 |  |  |  |